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	TH DIC DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.	FILING DATE	Gang-Ho Kim	0630-1239P	7007	
09/780,358	02/12/2001	EXAMINER		INER	
2672	990 04/02/2004 VART KOLASCH &	HA, DAC V			
PO BOX 747			ART UNIT	PAPER NUMBER	
FALLS CHUR	CH, VA 22040-0747		2634	3	
			DATE MAILED: 04/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)		
Office Action Summary		09/780,358		KIM, GANG-HO		
		Examiner		Art Unit		
		Dac V. Ha	_	2634		
The MAILIN	IG DATE of this communication app	pears on the co	over sheet with the o	correspondence address		
A SHORTENED S THE MAILING DA - Extensions of time may after SIX (6) MONTHS - If the period for reply s - If NO period for reply sithin to Any reply received by	TATUTORY PERIOD FOR REPL TE OF THIS COMMUNICATION. The available under the provisions of 37 CFR 1.1 from the mailing date of this communication. The pecified above is less than thirty (30) days, a repless specified above, the maximum statutory period the set or extended period for reply will, by statute the Office later than three months after the mailing instrument. See 37 CFR 1.704(b).	136(a). In no event, ly within the statutor will apply and will e	however, may a reply be tiry minimum of thirty (30) day the SIX (6) MONTHS from the become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
2a) ☐ This action	Responsive to communication(s) filed on 12 February 2001. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claim	ns					
4a) Of the a 5)⊠ Claim(s) <u>1</u> - 6)⊠ Claim(s) <u>7</u> 7)□ Claim(s) _	 g is/are pending in the application. bove claim(s) is/are withdrage. 6,8 and 9 is/are allowed. is/are rejected. is/are objected to. are subject to restriction and/ 	awn from cons				
Application Papers						
10) The drawing Applicant m	cation is objected to by the Examing(s) filed on is/are: a) accay not request that any objection to the drawing sheet(s) including the corrected declaration is objected to by the Examination.	ccepted or b) come by the drawing (s) be ection is required	held in abeyance. S d if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.	.S.C. § 119					
a)	gment is made of a claim for foreign Some * c) None of: ified copies of the priority docume ified copies of the priority docume ies of the certified copies of the prolication from the International Bureached detailed Office action for a limit	nts have beer ints have beer iority docume eau (PCT Rule	received. received in Applicants have been received 17.2(a)).	ation No ved in this National Stage		
Attachment(s) 1) Notice of Reference 2) Notice of Draftspe 3) Information Disclor Paper No(s)/Mail I	rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449 or PTO/SB/0	08)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	ary (PTO-413) Date Il Patent Application (PTO-152)		

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DETAILED ACTION

Specification

- 1. The abstract of the disclosure is objected to because it is too long. Correction is required. See MPEP § 608.01(b).
- 2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claim 7 is rejected under 35 U.S.C. 102(a) as being anticipated by the admitted prior art (instant application, Figure 1, pages 2-3).

Regarding claim 7, the admitted prior art in Figure 1 and pages 2-3 of the instant application teaches all the claimed subject matter "inputting real data ... select unit" of claim 7.

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Allowable Subject Matter

5. Claims 1-6, 8-9 are allowed.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Endres et al. (US 6,426,972) disclose a Reduced Complexity Equalizer For Multi Mode Signaling.

Lin et al. (US 6,671,342) disclose a Phase Detectors In Carrier Recovery For Offset QAM and VSB.

Scarpa et al. (US 5,673,293) disclose Method And Apparatus For Demodulating QAM and VSB Signals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Dac V. Ha Examiner Art Unit 2634